

No. F. 5(170) Agri. (S)/2019-20/4618-27
Government of Tripura
Department of Agriculture & Farmers Welfare

Dated, Agartala, 106/03/2020

"MEMORANDUM"

Pradhan Mantri 'Kisan Urja Suraksha evam Utthaan Mahabhiyan' (PM-KUSUM) Scheme launched by **Ministry of New and Renewable Energy (MNRE)** Government of India, is going to be implemented in the State of Tripura during 2019-20. The aim of the scheme is to support the individual farmer to install stand alone solar pump for irrigation purpose. Small and Marginal farmers are to be given priority. Target area should be pre Kharif rice fallow areas and the area where electricity is unavailable. Individual farmer has to deposit Rs. 2500.00 to install 1 HP Solar pump to irrigate one acre or Rs. 1000.00 per kani of land, in Tripura Renewable Energy Development Agency (**TREDA**) Headquarter Office at Agartala. The prescribed application form is annexed herewith. The district wise target is tabulated below:-

Sl. No	Name of District	Target (Nos)
1	North Tripura	25
2	Unokati	25
3	Dhalai	80
4	Khowai	60
5	West Tripura	50
6	Sepaijijala	100
7	Gomati	60
8	South Tripura	100
	Total	500

2. Hence, you are requested to communicate Agri. Sub-Division wise break up for monitoring of the scheme. Considering the field demand target may increase subsequently.

3. You are therefore requested to select the interested beneficiaries as per priority target area. The solar pumps will be distributed "First Come, First Served" basis. The list of the selected farmers along with filled up application forms and farmers' share should be submitted to the office of the **Director General & CEO, TREDA, Vigan Bhawan, Pandit Nehru Complex, Gurkhabasti, Agartala** duly signed by the applicant with counter signature of the Agri Sector Officer within **15th March 2020** positively.

The detail guideline is available at departmental website www.agri.tripura.gov.in

(Dr. D.P. Sarkar)
Director of Agriculture
Tripura

To

The Dy. Director of Agriculture, North Tripura/ Unokati/ Dhalai / Khowai/West Tripura / Sepaijijala/ Gomati / South Tripura for information and necessary action.

Copy To:-

1. The P.S to the Addl. Chief Secretary, Agriculture Dept. etc for kind appraisal to the Addl. Chief Secretary, Agriculture Dept. Etc
2. The Director General & CEO, Tripura Renewable Energy Development Agency (**TREDA**) Agartala.

(Dr. D.P. Sarkar)
Director of Agriculture
Tripura.

To

The Director General & Chief Executive Officer
Tripura Renewable Energy Development Agency,
Gorkhabasti, Agartala,
West Tripura District.

Sub: Application for installation of Standalone solar Agriculture pump (Component-B) for farmer under PM-KUSUM Scheme.

Sir,

In response to your advertisement in local newspapers, I am applying for installation of Standalone solar Agriculture pump in my agriculture land. Required information is given below:

1.	Type of applicant (Please tick)	:	1. Individual farmer 2. Marginal farmer 3. Water User Association 4. Cluster based irrigation system
2.	Full Name of Farmer/ Water User Association (IN BLOCK LETTERS)	:	
3.	Father's Name(in case of individual farmer)	:	
4.	Address	:	Name of House: Area/Locality: Nearest Landmark: Sub-division: District: Pin: Mobile:
5.	e-mail ID (if available)	:	
6.	Particulars of Land owned by farmer/ Water User Association	:	
7.	Area of Land to be covered under irrigation	:	
8.	Proposed capacity of solar pump.	:	
9.	Area of shadow free south facing land area for installation of Solar panels	:	_____ sq. mtrs.
10.	Source of water available	:	River/Chara/Pond/deep bore/other

Enclosures: Copy of parcha in support of land owned by farmer (Should not be less than three months old).

DECLARATION 1. I, hereby, declare that the information furnished above is true to the best of my knowledge and if found false or fictitious I shall not have any objection on rejection of my application. 2. I, hereby, declare that after technical verification of my premises, decisions taken by Tripura Renewable Energy Development Agency (TREDA) ascertaining the capacity solar pump to be installed on my land would be final & binding on me. 3. I, hereby, agree that I will pay my beneficiary share as determined by TREDA as and when asked for. 4. I, hereby, declare that I shall abide by all the rules & regulations of Tripura Renewable Energy Development Agency (TREDA) in force or notified time to time in this regard.

Date: ____/____/20____

Place: _____

Signature of Applicant

**BRIEF GUIDELINE
OF
PM KUSUM SCHEME
FOR
TRIPURA**

**Submitted to:
Additional Chief Secretary
Agriculture , Fisheries Deptt.
Govt. of Tripura**

Brief write up for implementation of PM KUSUM Scheme in Tripura

PM KUSUM (Prime Minister Kisan Urja Suraksha evam Utthan Mahaabhiyan) for farmers for installation of grid-connected power plants & Solar Agriculture Pumps launched by MNRE, Govt. of India on 22/07/2019 for welfare of the Farmers .

The PM-KUSUM scheme consisting of 3 components with the following target has been fixed during the financial year 2019-20 :

- a. Component A 5 MW (Solar Power Plant).
- b. Component B 1300 nos(New Solar Pumps).
- c. Component C 1300 nosb (Solarisation of existing pumps).

1. Component A- Setting up of Decentralized Ground/Stilt Mounted Grid connected Solar or other Renewable Energy based Power Plants:

- i. 5 MW de-centralized ground mounted grid connected renewable power plant has been targeted for the financial year 2019-20.
- ii. Cultivable land may be used , if solar power plant are set up on stilts where crops can be grown below the stilts.
- iii. RE based grid connected power plants of capacity from 500 KW to 2 MW may be set up by individual farmer/co-operatives/panchayet/Farmer Producer Organization (FFO), through developers or TSECL which will be considered as Renewable Power Generator (RPG). TSECL has to allow such installation & agree to purchase power at a feed-in-tariff for the period of 25 years.
- iv. The renewable power generated will be purchased by the TSECL at a pre-fixed levelised tariff.
- v. TSECL shall invite application from interested beneficiary/farmers/ developers /RPG for setting up of renewable energy plants.
- vi. The PPA(Power Purchase Agreement) to be signed between RPG and TSECL for the duration of 25 years from commercial operation date of the project. For selection of RPG bidding route will be followed and prefixed levelised tariff will be sealed tariff for bidding. Selection of bidders will be based on lowest tariff offered in the ascending order as quoted by the bidder in the closed bid or e-reversed auction as the case may be.
- vii. Government of India will provide procurement based incentive to TSECL @ Rs.0.40/- per unit or Rs.6.60lakhs per MW per year for 5 years from commencement of operation of the plant.

- viii. TRED A will co-ordinate with state/ farmer/TSECL.
- ix. The power plant would be setup by the own cost of developer/ farmers.
- x. TSECL is the state Nodal Agency for implementation of this component.
- xi. Estimate for 1(one) kwp. Land based solar power plant.

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2. **Component B-Installation of standalone solar pumps:**

- a. Installation of 1300nos standalone solar powered agriculture pumps has been targeted for the financial year 2019-20.
- b. Individual farmers will be supported to install stand alone solar pump up to 7.5 HP where conventional power source is not available for irrigation.
- c. Replacement of existing diesel agriculture pump/irrigation system in off-grid areas where grid power is not available.
- d. The size of the pump would be selected on the basis of water table in the area, land covered, quantity of water required for irrigation. Small and marginal farmers will be given priority. Preference will also be given to the farmers using micro irrigation system or covered under micro irrigation scheme. Water irrigation association, community/clustered based irrigation system will also be covered under the scheme.
- e. Whenever, the grid reaches the off-grid area, stand alone Solar Pump may be connected to grid to feed surplus power depending on grid capacity.
- f. The pumps generally will be used for operating the pumps for irrigation purpose. These pumps can also be optimally utilised by using universal solar pumps controller (USPC) through which farmers can use solar power for other activities like operating chaff cutter, rice mill, cold storage, drier, battery charges etc. increase the income of farmers.
- g. State Implementing Agency, TRED A will ensure the publicity of the scheme.
- h. CFA @ 50% of benchmark cost/discovered rate would be provided under the scheme. The balance has to be borne by State Govt. and beneficiary.
- i. The cost sharing of pumps as follows:

Capacity of the pump	Total Cost	MNRE Share	Beneficiary share(Rs)	State Share (Rs)
1 HP Submersible	1.12 Lakh	Rs 56000	2500	53500 (Extra boring cost Rs 50000 approx)
2 HP	1.40 lakh	Rs 70000	5000	65000 (Extra boring cost Rs 50000 approx)
3 HP	1.80 Lakh	Rs 90000	7500	82500 (Extra boring cost Rs 50000 approx plus universal pump controller Rs 52100)

5 HP	2.50 lakh	Rs 125000	12500	112500 (Extra boring cost Rs 50000 approx plus universal pump controller Rs 67500)
7.5 HP	3.62 lakh	Rs 181000	18750	162250 (Extra boring cost Rs 50000 approx plus universal pump controller Rs 72500)

j. The successful bidder shall provide AMC for 5 years from the date of installation, real-time monitoring, helpline, district level service centre and complies standard of performance in dealing with complaints/ redressal mechanism.

3. Component C- solarisation of grid connected agriculture pumps:

- i. 1300 existing grid-connected agriculture pumps will be solarised under the scheme.
 - ii. Only SPV Module capacity up to 2 times of the pump capacity in KW would be allowed under this scheme.
 - iii. The farmers would be able to use the generated solar power to meet the irrigation needs and the excess solar power will be sold to TSECL through net-metering arrangement.
 - iv. TREDAs designated by the State Govt. would be the Implementing Agency.
 - v. State Implementing Agency will ensure the publicity of the scheme and tender will be floated.
 - vi. CFA would be applicable up to 7.5 HP Pumps.
- Cost Sharing of pumps as follows:

Capacity	Unit/ Total Cost	MNRE Share	State share
2 HP	1690.00 Lakh @1.30/2HP	767.00 lakh	923.00 Lakh